

METHOD AND APPARATUS FOR PROVIDING POSITIVE AIRWAY PRESSURE TO A PATIENT

Publication number: JP2002505924 (T)

Publication date: 2002-02-26

Inventor(s):

Applicant(s):

Classification:






- **international:** **A61M16/00**; A61M16/20; **A61M16/00**; A61M16/20; (IPC1-7): A61M16/00

- **European:** A61M16/00

Application number: JP20000535400T 19990311

Priority number(s): US19980041195 19980312; WO1999US05325 19990311

Also published as:

 JP4081239 (B2)
 WO9945989 (A1)
 US6609517 (B1)
 US6105575 (A)
 JP2008110221 (A)

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Abstract not available for JP 2002505924 (T)

Abstract of corresponding document: **WO 9945989 (A1)**

A system including methods and apparatus for treatment of a medical disorder such as obstructive sleep apnea or congestive heart failure. The system involves applying separate and independent gains (24) to flow rates of pressurized gas delivered to a patient (12) during inspiratory, expiratory phases of a respiratory cycle to deliver the pressurized gas in proportion to the respective gains during inspiration and expiration. A base pressure profile may be employed to assist or control inspiration. The system may be fully automated responsive to feedback provided by a flow sensor (22) that determines the estimated patient flow rate. A leak computer (32) can be included to instantaneously calculate gas leakage from the system. The system may be utilized in connection with conventional continuous positive airway pressure (bi-level PAP) equipment to effect various beneficial treatment applications.

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